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Space–Time Covariation of Mortality with Temperature: A Systematic Study of Deaths in France, 1968–2009

Nicolas Todd[1] and Alain-Jacques Valleron[1,2]

Sensitivity analyses

Model 1: 2df/y

Figure S1. Comparison of MMT obtained with 1 and 2 df/y for s(t) for the 211 squares with > 7,500 deaths and a U/J-shaped curve for all three periods. The full line figures the equality between the MMT estimates.

Model 2: 4df/y and lagged temperature

Figure S2. Derivation of the temperature-mortality relation with Model 2 in square 27-17 of the grid. Top panels: left $s_{1a}(T_t)$, right $s_{1b}(T_{t-1;t-6})$. Bottom panel: the final temperature-mortality curve $(s_{1a}(T)+ s_{1b}(T))/ (s_{1a}(MMT)+ s_{1b}(MMT))$.

Figure S3. Comparison of MMT estimates obtained with Model 2 (4df/year + lagged effect of temperature) with those presented in the paper. Two separate analyses were done: The left panel presents the results obtained on the squares with > 22,500 deaths and U/J curves (n=225). The right panel presents the results obtained on the squares with > 50,000 deaths and U/J squares (n=107) 107 U/J curves.